

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1369	345/690.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 14:58
S2	6	S1 and 345/904.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 14:58
S3	55	("4379292"   "4386345"   "4622584"   "4842378"   "4912558"   "5115229"   "5132825"   "5206633"   "5206673"   "5207493"   "5250937"   "5298993"   "5302946"   "5315378"   "5333073"   "5337068"   "5353075"   "5359691"   "5369432"   "5371537"   "5381309"   "5394308"   "5404185"   "5428720"   "5477423"   "5479328"   "5485354"   "5502458"   "5548670"   "5550657"   "5568164"   "5593221"   "5638117"   "5654779"   "5661531"   "5661839"   "5680180"   "5688035"   "5696529"   "5731794"   "5739809"   "5886681"   "5898414"   "5920358"   "5926239"   "5986641"   "6023131"   "6036327"   "6043797"   "6072458"   "6184957"   "6243059"   "6256425"   "6359389"   "6611249").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:19
S4	0	S1 and (multiplex\$5 near2 dummy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:22
S5	0	S1 and (multiplex\$5 near2 lead\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:22

## EAST Search History

S6	0	S1 and (multiplex\$5 near2 lead\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 15:22
S7	205	S1 and (multiplex\$5 )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 15:39
S8	3	S7 and (repair\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 15:23
S9	0	S1 and (multiplex\$5 near4 lead\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 15:39
S10	2801	(multiplex\$5 near4 lead\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 15:40
S11	1369	345/690.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 15:40
S12	0	S10 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 15:40

## EAST Search History

S13	125	S10 and (repair\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 16:09
S14	8	("3588890"   "3700966"   "3786501"   "3821734"   "3973257"   "4007456").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 16:06
S15	0	driv\$3 near2 multiplex\$ near2 repair\$4 near2 display	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 16:11
S16	0	multiplex\$ near2 repair\$4 near2 display	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 16:11
S17	1	multiplex\$ near4 repair\$5 near3 display	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 16:12
S18	1	(repair\$4 near2 connect\$4 near4 multiplex\$4 near4 circuit near2 display )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 16:13
S19	11	(repair\$4 near2 connect\$4 near4 multiplex\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 17:25

## EAST Search History

S20	2027	(repair\$4 or Fix\$3 or replace) near2 multiplex\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 17:28
S21	0	S20 and (324/770.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 17:29
S22	0	S20 and (345/904.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 17:29
S23	0	S20 and (connection near4 (driver near2 multiplex\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 17:30
S24	26	S20 and (driver near2 multiplex\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 17:42
S25	457	324/770.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 17:42
S26	430	S25 and display	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:37

## EAST Search History

S27	29	(laser near4 fail) same display	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:40
S28	0	(display Near4 ( mux or multiplex\$4)) with ((lead near4 laser) or (laser near4 lead))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:42
S29	8303	(display Near4 ( mux or multiplex\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:42
S30	0	S9 and ((lead near4 laser) or (laser near4 lead))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:42
S31	0	S9 and (lead near4 laser)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:42
S32	0	S9 and lead	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:43
S33	1901	S29 and lead	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:43

## EAST Search History

S34	6	S33 and ((lead near4 laser) or (laser near4 lead))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:45
S35	0	S29 and (fail\$4 near2 mux)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:46
S36	1441	S29 and (fail\$4 )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:46
S37	170	S36 and (laser)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/22 18:47
S38	1	("5641956").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:04
S39	6	(multiplex\$4 ) near4 fail\$1 Near2 connec\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:05
S40	11	("4593390"   "4718063"   "4910466"   "4985703"   "5295174"   "5311517"   "5355035"   "5406607"   "5446321"   "5463326"   "5475324").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:08
S41	72	(repair\$4 near4 (driv\$4 adj circuit) )	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:32
S42	13	S41 and (mux or Multiplex\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:13
S43	6	("5386387"   "5544113"   "5652725"   "5708612"   "5761138"   "6067260").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:31

## EAST Search History

S44	24	S41 and lead	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:33
S45	195	345/93.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:35
S46	31	S45 and multiplex\$	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:40
S47	1	("5119082").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/22 19:41
S48	1	("5311205").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/22 19:41
S49	1	("5946068").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/22 19:41
S50	8	("5093655"   "5285301"   "5406398"   "5513028"   "5598178"   "5745090"   "5790092"   "5864336").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:45
S51	9	("4481382"   "4483599"   "5059961"   "5287298"   "5327503"   "5349688"   "5410714"   "5493685"   "5515080").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:49
S52	6	("4849700"   "4980836"   "5065357"   "5184117"   "5315695"   "5386577").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:51
S53	0	dummy near2 (multiplex\$3 with redudancy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:52
S54	206	dummy near2 (multiplex\$3 )	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:54
S55	42	S54 and display	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:57
S56	8	S55 and lead\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 19:58

## EAST Search History

S57	114	("3633174"   "4077016"   "4096402"   "4404474"   "4481625"   "4511846"   "4514647"   "4600895"   "4638187"   "4687951"   "4773085"   "4789796"   "4893087"   "4902986"   "4958088"   "4984204"   "5020023"   "5038115"   "5086500"   "5087828"   "5122690"   "5128560"   "5128563"   "5134311"   "5150186"   "5165046"   "5179298"   "5194765"   "5212601"   "5220208"   "5239206"   "5243703"   "5254883"   "5256989"   "5257294"   "5268639"   "5274276"   "5276642"   "5278460"   "5281865"   "5283631"   "5295164"   "5311481"   "5311483"   "5321368"   "5337285"   "5347177"   "5347179"   "5355391"   "5361002"   "5390308"   "5400283"   "5408640"   "5410263"   "5416436"   "5420544"   "5428311"   "5430676"   "5432823"   "5438545"   "5440260"   "5440514"   "5446696"   "5448193"   "5451898"   "5457407"   "5465076"   "5473274"   "5473575"   "5473639"   "5485490"   "5488321"   "5489864"   "5497127"   "5498990"   "5506814"   "5508638"   "5513327"   "5539345"   "5544203"   "5552727"   "5568075"   "5568077"   "5572557"   "5574698"   "5576645"   "5577236"   "5578940"   "5578941"   "5579326"   "5581197"   "5589788"   "5590073"   "5594690"   "5614855"   "5619473"   "5621340"   "5621690"   "5621739"   "5627780"   "5627791"   "5631872"   "5636163"   "5636173"   "5636174"   "5638335"   "5657481"   "5668763"   "5692165"   "5694065"   "5712580"   "5719508"   "5751665"   "5789947") .PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:05
9/16/2007 8:38:44 PM						Page 8



## EAST Search History

S58	33921	flat adj panel adj display	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:06
S59	2798	lead\$1 near4 (mux Or Multiplex\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:07
S60	854	S59 and (fail\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:08
S61	42	S60 and (dummy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:09
S62	99	S60 and (repair\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:34
S63	131	display with multiplex\$4 with lead\$1	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:43
S64	5	("4825203"   "4908609"   "5412397"   "5657040"   "Re33882").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:43
S65	38	S63 and fail\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 20:44
S66	231	345/93.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 10:30
S67	29	S66 and repair	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 10:30
S68	34	S66 and repair\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 10:36

## EAST Search History

S69	0	repair\$3 Near4 ((video near4 line\$3) ) with (multiplex\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 10:38
S70	1628	((video near4 line\$3) ) with (multiplex\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 10:38
S71	198	S70 And ("345"/.clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 10:58
S72	0	S71 and (lead near2 conn\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 10:59
S73	1	S71 and (lead with conn\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 10:59
S74	3	("4383296"   "4386773"   "4418343").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:08
S75	1411	repair\$4 and ("345"/.clas.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:08
S76	1	S75 and (Lead near4 multiplex)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:09
S77	12	("3717867"   "3755806"   "3803587"   "3918041"   "3925775"   "3943500"   "3990070"   "3993979"   "4106369"   "4188626"   "4194199"   "4206458").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:25

## EAST Search History

S78	1	(multiplex\$3) with (dummy near4 lead\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:27
S79	2629	(multiplex\$3) near4 (lead\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:40
S80	320	S79 and (laser)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:27
S81	896	S79 and (display)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:28
S82	896	S79 and S81	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:30
S83	27080	S82 amd (multiplex\$3 near4 repair)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:29
S84	310859	S82 amd repair	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:29
S85	1892	17and (multiplex near4 repair\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:30
S86	335224	17and ( repair\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:30
S87	61	S81 and (repair\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:40
S88	2	S79 and (laser near2 repair\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:41
S89	6	("4541090"   "4744061"   "4868823"   "5075892"   "5185744"   "5301155").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:44
S90	6	multiplex\$4 with dummy with lead\$1	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:48
S91	6	display with dummy with multiplex\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:50
S92	0	(repair near2 connect\$3) near2 (multiplex\$4 near2 (driv\$4 adj circuit) )	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:52

## EAST Search History

S93	0	(repair near2 connect\$3) same (multiplex\$4 near2 (driv\$4 adj circuit) )	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:52
S94	1	((repair or fix\$4 or make replac\$4) near2 connect\$3) same (multiplex\$4 near2 (driv\$4 adj circuit) )	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:53
S95	7	("3544743"   "4190318"   "4264891"   "4275379"   "4321474"   "4323877").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 11:54
S96	4	("2673905"   "3364319").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:04
S97	1	"20060050041"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:23
S98	4	(repair\$ or fix\$3 or restore or renovate) near3 (driv\$4 near2 (flat adj panel))	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:27
S99	318	(repair\$ or fix\$3 or restore or renovate) near3 (flat adj panel)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:27
S10 0	25	S99 and Multiplex\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:30
S10 1	4	S99 and (Multiplex\$4 and lead\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:32
S10 2	2	repair\$3 near4 (laser) near4 (flat adj panel)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:34
S10 3	0	(flat adj panel ) near4 (multiplex\$4 and lead) near4 (repair near2 laser)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:35
S10 4	0	(flat adj panel ) near4 (multiplex\$4 and lead) near4 (repair\$4 near2 laser)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:35
S10 5	0	(flat adj panel ) near4 (multiplex\$4 and lead) near4 ( laser)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:36
S10 6	0	(flat adj panel ) same (multiplex\$4 and lead) near4 ( laser)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:36
S10 7	3	(flat adj panel ) and (multiplex\$4 and lead) near4 ( laser)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:36

## EAST Search History

S108	832	(flat adj panel ) and (multiplex\$4 and lead) and ( laser)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:41
S109	669	S108 and (repair\$4 or fix\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 12:42
S110	669	S109 and (lead\$1 and multiplex\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 13:01
S111	3	"2003043132"	EPO; DERWENT	OR	ON	2007/08/27 13:05
S112	2	"2002080131"	EPO; DERWENT	OR	ON	2007/08/27 13:19
S113	1	("5402181").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/27 13:20
S114	0	("(repair\$4orfix\$4)near2(multiplex\$4near2lea\$1)").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/27 13:21
S115	0	(repair\$4 or fix\$4) near2 (multiplex\$4 near2 lea\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 13:22
S116	4	(repair\$4 or fix\$4) near2 (multiplex\$4 near2 lead\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 13:26
S117	1186	(repair\$4 or fix\$4) near2 (driv\$4 adj circuit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 13:26
S118	252	S117 and (laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 13:30
S119	1	S118 and (multiplex\$3 near4 lead)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 13:27
S120	11	S118 and multiplex	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 13:41

## EAST Search History

S12 1	503	(driv\$4) same (repair\$3 or fix\$3 or replac\$4 or dummy or defective ) with (lead or conduct\$4 or wir\$3 or connect\$3) same (multiplex\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 16:06
S12 2	24	S121 and ("345"/.clas.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 15:15
S12 3	0	S121 and ("345"/\$.clas.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 15:15
S12 4	5	("4028536"   "4194113"   "4453128"   "5877736"   "5994916").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 15:32
S12 5	0	(driver) same (repair or fix or replac or dummy or defective ) with (lead or conduct\$4 or wir or connect) same (multiplex)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 16:07
S12 6	27	(driver) same (repair or fix or replace or dummy or defective ) with (lead or conduct\$4 or wire or connection) same (multiplexer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 16:58
S12 7	705	redundant near2 repair	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 16:58
S12 8	0	S127 and (driv\$3 with multiplex with lead\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 17:00
S12 9	0	S127 same (driv\$3 with multiplex with lead\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 17:00
S13 0	76	(driv\$3 with multiplex with lead\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/27 17:01

## EAST Search History

S13 1	12	("3717867"   "3755806"   "3803587"   "3918041"   "3925775"   "3943500"   "3990070"   "3993979"   "4106369"   "4188626"   "4194199"   "4206458").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:13
S13 2	0	( repair\$3 or fix\$3 or recover\$3) near2 (driver\$3 with multiplex\$4 with lead\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:16
S13 3	0	( repair\$3 or fix\$3 or recover\$3) near2 (driv\$3 with multiplex\$4 with lead\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:16
S13 4	11	( repair\$3 or fix\$3 or recover\$3) near2 (driv\$3 with multiplex\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:17
S13 5	4	("4142361"   "5726674"   "5828488"   "5874931").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:17
S13 6	8	("5307314"   "5321651"   "5687125"   "5892718"   "5956284"   "5978290"   "6011727"   "6091667").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:19
S13 7	8	("5307314"   "5321651"   "5687125"   "5892718"   "5956284"   "5978290"   "6011727"   "6091667").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:19
S13 8	5	("5289413"   "5729504"   "5737258"   "5875140"   "5901086").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:22
S13 9	1	(driv\$3 adj circuit) with multiplex\$3 with ( input adj lead\$1) and (output adj lead\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:24
S14 0	4	(driv\$3 adj circuit) with multiplex\$3 with ( lead near2 connec\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:27
S14 1	1211	(repair\$4 or fix\$4 or replac\$4) near2 (driv\$3 adj circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:28
S14 2	127	S141 and (multiplex\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:28
S14 3	41	S142 and (lead\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:35
S14 4	1	"20060050041"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:35

## EAST Search History

S14 5	773	((MARTIN) near2 (EDWARDS)). INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 17:36
S14 6	20	("4890101"   "5021774"   "5325442"   "5510807"   "5589847"   "5751279"   "5892493"   "6049321"   "6111557"   "6144426"   "6166715"   "6255705"   "6256024"   "6281891"   "6326958"   "6380917"   "6380920"   "6384806"   "6411273"   "6507332").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:09
S14 7	11	("4716403"   "4779086"   "4870399"   "4890101"   "5192945"   "5376944"   "5610414"   "5654735"   "5889504"   "5973661"   "6025835").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:11
S14 8	132	((JOHN) near2 (AYRES)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:16
S14 9	5	S148 and multiplex\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:16
S15 0	12	("20020075211"   "4406997"   "4430648"   "4870396"   "5130829"   "5325442"   "5349174"   "5396261"   "5448258"   "5712652"   "5923311"   "5977940").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:22
S15 1	2	"7259739"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:22
S15 2	13	("20010050678"   "20020109652"   "4890097"   "5119082"   "5311205"   "5946068"   "6160535"   "6229513"   "6236388"   "6266038"   "6512505"   "6812908"   "7167153").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:28
S15 3	0	(driv\$3 adj circuit) near4 (multiplex\$4 with dummy) near4 (lead near2 connec\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:30
S15 4	0	(driv\$3 adj circuit) near4 (multiplex\$4 with dummy) near4 (leads near2 connec\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:31



## EAST Search History

S15 5	0	(driv\$3 adj circuit) near4 (multiplex\$4 near4 dummy) near4 (lead\$1 near2 connec\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:31
S15 6	1	(driv\$3 adj circuit) near4 (multiplex\$4 near4 dummy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:40
S15 7	423	(repair\$3 Or fix\$3) near4 (flat adj panel)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:42
S15 8	0	S157 and (driv\$4 near2 multiplex near2 lead\$1 near2 display)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:42
S15 9	23	S157 and (dummy)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:42
S16 0	11	("5298891"   "5303074"   "5381014"   "5473452"   "5475246"   "5480812"   "5486939"   "5491347"   "5504348"   "5552607"   "5557534").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 18:48
S16 1	1	("5268678").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/11 20:52
S16 2	1	("5894295").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/11 20:55
S16 3	1	("5555001").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/11 21:02
S16 4	1	("4840459").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/11 21:05
S16 5	1	("4688896").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/12 08:47
S16 6	0	("driv\$4withmultiplexerwithdummy ").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/12 08:48
S16 7	50	driv\$4 with multiplexer with dummy	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 08:48
S16 8	2708	(multiplex\$3 near4 lead)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 17:46

## EAST Search History

S16 9	375724	(liquid crystal display)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 17:51
S17 0	94	S168 and S169	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 17:47
S17 1	59	S169 and ((dummy or model or fake) near2 multiplex\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 17:50
S17 2	5	S168 and S169 and S171	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 17:50
S17 3	8287	S169 and repair\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 17:51
S17 4	309	S173 and dummy	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 17:52
S17 5	309	S174 and display	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 18:00
S17 6	0	display with ((spreare adj lead) and dummy)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 18:01
S17 7	4357	display with (dummy)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 18:01
S17 8	266	(Mux or multiplex\$3) near2 (dummy or spear\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 18:02

## EAST Search History

S17 9	9	S177 and S178	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 18:26
S18 0	535	349/152.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 18:33
S18 1	513	S180 and display	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 18:28
S18 2	76	S180 and (dummy)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 18:37
S18 3	6	S180 and multiplexer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:21
S18 4	146	349/50.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:30
S18 5	0	(spear near2 (input-lead) and (output-lead))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:33
S18 6	0	(spear near2 ((input-lead) and (output-lead)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:34
S18 7	0	(dummy near2 ((input-lead) and (output-lead)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:35
S18 8	3	(dummy near2 ((input adj lead) and (output adj lead)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:35

## EAST Search History

S18 9	3	(dummy near2 ((input adj lead) and (output adj lead)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:40
S19 0	0	multiplex\$3 near2 (dummy near2 ((input adj lead) and (output adj lead)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:41
S19 1	0	multiplex\$3 near2 (dummy near2 (input adj lead) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:41
S19 2	1892	multiplex\$3 same (dummy )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:42
S19 3	0	multiplex\$3 same ((dummy ) with (spear with lead))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:43
S19 4	13	multiplex\$3 same ((dummy ) with ( lead))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/09/13 19:43
S19 5	14	("4766426"   "4859998"   "4922240"   "5162786"   "5170158"   "5305130"   "5341233"   "5402149"   "5402255"   "5491347"   "5510807"   "5517208"   "5532718"   "5557534").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 19:53
S19 6	14	("4766426"   "4859998"   "4922240"   "5162786"   "5170158"   "5305130"   "5341233"   "5402149"   "5402255"   "5491347"   "5510807"   "5517208"   "5532718"   "5557534").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 20:15
S19 7	1	("5754160").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 20:40
S19 8	1	("6281891").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 22:38

## EAST Search History

S19 9	1	("5268678").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 22:38
S20 0	0	("((spareorextra)adjoutput)with(le adorwire)").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 15:28
S20 1	23	((spare or extra) adj output) with (lead or wire)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:40
S20 2	449	(cross or intersect) near2 (video adj signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:41
S20 3	1	S201 and S202	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:34
S20 4	64	349/52.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:57
S20 5	0	S202 and S204	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:40
S20 6	7	S202 and repair\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:44
S20 7	3	(repair\$3 or fix\$3 or adjust\$3 ) near2 ((input adj lead) and (output adj lead) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:46
S20 8	594846	repair\$2 (display with driv\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:58
S20 9	12	repair\$3 near2 (display with driv\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 15:59

## EAST Search History

S21 0	1	(video adj signal\$1) near2 ((spare or extra) adj (input adj lead))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 16:03
S21 1	24	(video adj signal\$1) near2 (input adj lead)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 16:09
S21 2	0	(input adj lead\$1) near2 (cross near2 Video adj signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 16:11
S21 3	1	(input adj lead\$1) with cross with ( Video adj signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 16:11
S21 4	0	(spare adj output adjlead) near2 (video adj data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:09
S21 5	0	(spare adj output adj leads) near2 (video adj data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:10
S21 6	0	(spare near2 leads) near2 (video adj data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:10
S21 7	17	(spare near2 data) near2 (video)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:32

## EAST Search History

S21 8	0	spare with input with lead with cross with ( Video adj data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:38
S21 9	354347	spare with input with lead with cross with ( Video adj data) or (image adj data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:34
S22 0	4466	S219 and repair	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:34
S22 1	745	S220 and (multiplex\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 18:19
S22 2	6	S221 and ("349"/.clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:38
S22 3	43945	"349"/.clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:38
S22 4	0	S223 and (spare with input with lead with cross with ( Video adj data))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:39

## EAST Search History

S22 5	0	S223 and (spare with input with lead with (cross or intersec\$3) with ( Video adj data))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 17:39
S22 6	231	345/93.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/14 18:19
S22 7	4	("4688896"   "4789857"   "4807973"   "4840459").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/14 18:43
S22 8	4	("4688896"   "4789857"   "4807973"   "4840459").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/14 18:43
S22 9	2	("4368523"   "4688896").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/14 18:46
S23 0	1	("4368523").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/14 18:46
S23 1	7	("5268678").URPN.	USPAT	OR	ON	2007/09/14 18:47
S23 2	19	("4688896"   "4807973"   "4819038"   "4840459"   "5045753"   "5063378"   "5086347"   "5113134"   "5132819"   "5175504"   "5233448"   "5235272"   "5260818"   "5268678"   "5298891"   "5303074"   "5309108"   "5504504"   "5793344").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/14 18:56
S23 3	7	("4688896"   "4807973"   "4840459"   "5268678"   "5392245"   "5555001"   "5625373").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/16 16:34
S23 4	0	("55555001").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/16 16:34
S23 5	1	("5555001").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/16 20:12
S23 6	1	("7123232").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/16 20:12



## EAST Search History

S23 7	1	("4688896").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/16 20:13
S23 8	1	("6281891").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/16 20:14
S23 9	1	("5555001").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/16 20:15
S24 0	1	("5268678").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/16 20:15